

**CLASSIFICATION AND CORRELATION  
OF  
THE SOILS OF**

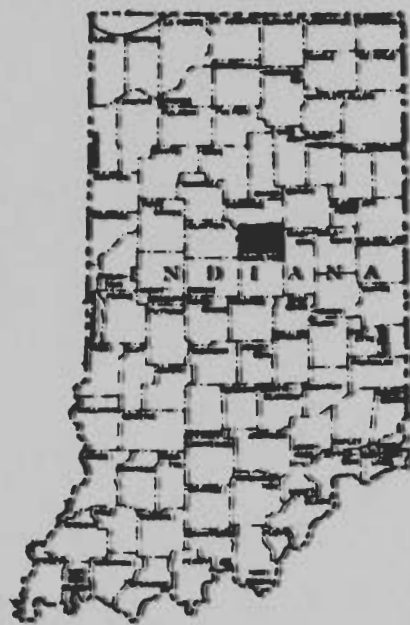
***TIPTON COUNTY  
INDIANA***

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***SEPTEMBER 1985***

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LOCATION



**U. S. DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
MIDWEST NATIONAL TECHNICAL CENTER  
LINCOLN, NEBRASKA**

UNITED STATES DEPARTMENT OF AGRICULTURE  
Soil Conservation Service  
Midwest National Technical Center  
Lincoln, Nebraska 68508-3866

Classification and Correlation  
of the Soils of  
Tipton County, Indiana

The field correlation for the soil survey of Tipton County, Indiana, was held at Indianapolis, Indiana, January 14, 1985. Bill Hosteter, soil scientist, Indiana State Office, prepared the field correlation. Travis Neely, party leader, participated by telephone conversation. The data reviewed consisted of the first draft of the soil survey manuscript, laboratory data, and SCS-SOILS-5 forms. Gerald J. Post, soil correlator, MNTEC, participated in the comprehensive field review on September 10-13, 1984.

This correlation was prepared by Gerald J. Post during February 1985, in telephone consultation with the state soils staff. Material used to prepare this correlation included the soil survey manuscript, field correlation, laboratory data, and SCS-SS-6's.

Headnote for Detailed Soil Survey Legend:

Map symbols consist of a combination of letters or of letters and a number. The first capital letter is the initial one of the map unit name. The lowercase letter that follows separates map units having names that begin with the same letter, except that it does not separate sloping or eroded phases. The second capital letter indicates the class of slope. Symbols without a slope letter are for nearly level soils or miscellaneous areas. A final number of 2 indicates that the soil is eroded.

SCIL CORRELATION OF  
TIPTON COUNTY, INDIANA

Field symbols	Field map unit name	Publi- cation symbol	Approved map unit name
CsA	Del Rey, sandy substratum-Crosby silt loams, 0 to 2 percent slopes	DeA	Del Rey, sandy substratum-Crosby silt loams, 0 to 2 percent slopes
Wy, Lw, Lk	Willette muck, drained	Pa	Palms muck, drained
Wz	Willette muck, undrained	Pc	Palms muck, undrained
Pn	Patton silty clay loam	Pn	Patton silty clay loam, sandy substratum
Ps, Mv, Tr	Pella Variant silty clay loam	Ps	Pella, sandy substratum-Drummer, till substratum, silty clay loams
MkC2, MhC3 <del>MSC2</del>	Martinsville- Lewisburg complex, 6 to 12 percent slopes, eroded	SaC2	Sisson-Strawn complex, 6 to 12 percent slopes, eroded
Sh, Ee, Ed, Sr, Em	Sloan silty clay loam, occasionally flooded	Sh	Sloan silt loam, sandy substratum, occasionally flooded
MkB2, LoB3, MgA, MgB, MmB2, MoB2, MgB2	Martinsville- Lewisburg complex, 2 to 6 percent slopes, eroded	TuB2	Tuscola, till substratum-Strawn complex, 1 to 6 percent slopes, eroded
Pu, Py, Or	Pits	Ud	Udorthents, loamy
CkB, CkB2	Celina silt loam, 1 to 4 percent slopes, eroded	WkB	Williamstown silt loam, 1 to 4 percent slopes

Series Established by This Correlation:

None

Series Dropped or Made Inactive:

Curtisville was reserved for use in Tipton County. It is not needed and is dropped.

Certification Statement:

The state soil scientist certifies that the detailed maps and the general soil map are joined with adjacent counties. Areas which do not join are noted in the join statement on file in the state office.

The mapping is completed, interpretations have been coordinated, and all typical pedons are in soil areas using the map unit name. The legal descriptions of the location of the typical pedons are correct.

Verification of Exact Cooperator Names:

For the front cover:

United States Department of Agriculture  
Soil Conservation Service  
in cooperation with Purdue University  
Agricultural Experiment Station and  
Indiana Department of Natural Resources  
Soil and Water Conservation Committee

The citation in the box on the inside of the front cover will read:  
"This survey was made cooperatively by the Soil Conservation Service, Purdue University Agricultural Experiment Station, and the Indiana Department of Natural Resources Soil and Water Conservation Committee. It is part of the technical assistance furnished to the Tipton County Soil and Water Conservation District. Financial assistance was made available by the Tipton County Board of County Commissioners."

Disposition of Original Atlas Field Sheets:

The original atlas field sheets for Tipton County will be retained by the Indiana State Office, and will be used in the map compilation and finishing procedures. Copies have been made for fire protection purposes. The state office at Indianapolis will prepare the atlas sheets for publication by September 1985.

Prior Soil Survey Publications:

None

Instructions for Map Compilation and Map Finishing:

The conventional and special symbols used in this survey are listed on the attached SCS-SOILS-37A. These are the only symbols that will be shown on the published maps. The maps will be finished using the "Guide for Soil Map Finishing," revised 1984.

Soil Survey Area: Tipton County  
State: Indiana

Dcte: 4/84

[illegible]

## SOIL SURVEY TIPTON COUNTY, INDIANA

## PRIME FARMLAND

(Only the soils considered prime farmland are listed. Urban or built-up areas of the soils listed are not considered prime farmland. If a soil is prime farmland only under certain conditions, the conditions are specified in parentheses after the soil name)

Map symbol	Soil name
DeA	! Del Rey, sandy substratum-Crosby silt loams, 0 to 2 percent slopes (where drained)
Pn	! Patton silty clay loam, sandy substratum (where drained)
Ps	! Pella, sandy substratum-Drummer, till substratum silty clay loams (where drained)
Sh	! Sloan silt loam, sandy substratum, occasionally flooded (where drained and either protected from flooding or not frequently flooded during the growing season)
TuB2	! Tuscola, till substratum-Strawn complex, 1 to 6 percent slopes, eroded
WkB	! Williamstown silt loam, 1 to 4 percent slopes

Approved: September 19, 1985

Rodney F. Harner  
 RODNEY F. HARNER  
 Head, Soils Staff  
 Midwest NTC

CONVERSION LEGEND FOR  
TIPTON COUNTY, INDIANA

Field symbol	Publication symbol	Field symbol	Publication symbol	Field symbol	Publication symbol	Field symbol	Publication symbol
CkB	WkB						
CkB2	WkB						
CsA	DeA						
Ed	Sh						
Ee	Sh						
Em	Sh						
Lk	Pa						
LoB3	TuB2						
Lw	Pa						
MgA	TuB2						
MgB	TuB2						
MgB2	TuB2						
MhC3	SaC2						
MkB2	TuB2						
MkC2	SaC2						
MmB2	TuB2						
MoB2	TuB2						
Mv	Ps						
Or	Ud						
Pn	Pn						
Ps	Ps						
Pu	Ud						
Py	Ud						
Sh	Sh						
Sr	Sh						
Tr	Ps						
Wy	Pa						
Wz	Pc						

**CLASSIFICATION OF PEDONS SAMPLED  
FOR LABORATORY ANALYSIS**

Data for which forms SCS-SOILS-8 have been prepared  
Analysis by NSSL

<u>Sampled as</u>	<u>Pedon Sample No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name or Classification</u>
Lewisburg	*S82IN159-18-(1-6)	TuB2	Strawn
Milford, sandy substratum	S82IN159-20-(1-9)	Ps	Pella, sandy substratum
Patton, sandy substratum	S82IN159-16-(1-8)	Pn <sup>1/</sup>	Pella, sandy substratum
Pella Variant	*S82IN159-23-(1-9)	Ps	Pella, sandy substratum

Analysis by Purdue University

<u>Sampled as</u>	<u>Pedon Sample No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name or Classification</u>
Mahalasville	S77IN159-2-(1-7)	Pn <sup>1/</sup>	Pella
Whitaker	S77IN159-1-(1-7)	DeA <sup>1/</sup>	Aptakistic

Data for which forms SCS-SOILS-10 have been prepared  
Analysis by State Highway Department of Indiana, Division of Materials and  
Tests

<u>Sampled as</u>	<u>Pedon Sample No.</u>	<u>Publication Symbol</u>	<u>Approved Series Name or Classification</u>
Crosby	S82IN159-22-(1-7)	DeA	Crosby
Del Rey, sandy substratum	S82IN159-19-(1-7)	DeA	Del Rey, sandy substratum
Milford, sandy substratum	S82IN159-20-(1-9)	Ps	Pella, sandy substratum
Patton, sandy substratum	S82IN159-16-(1-8)	Pn	Patton, sandy substratum

\*Representative pedon of series for Tipton County, Indiana

<sup>1/</sup> Mapping inclusion



Notes to Accompany  
Classification and Correlation  
of the Soils of  
Tipton County, Indiana

by

Gerald J. Post

PATTON SERIES

This soil has a slightly thicker solum than what is definitive for the series. This difference is not serious enough to consider this soil a taxadjunct.

PELLA SERIES

This soil has a slightly thinner solum than is definitive for the series. This difference is not serious enough to consider this soil taxadjunct.

SISSON SERIES

This soil has a slightly browner surface and a slightly grayer B horizon than is definitive for the series. These differences are not serious enough to consider this soil a taxadjunct.

TUSCOLA SERIES

This soil is a taxadjunct because it does not have mottles within the upper 10 inches of the argillic horizon and the C horizon is slightly browner than defined. However, gray mottles are at a depth of 27 inches and the interpretations are similar. It classifies as a fine-loamy, mixed, mesic Typic Hapludalf.

## SOIL SURVEY TIPTON COUNTY, INDIANA

## CLASSIFICATION OF THE SOILS

(An asterisk in the first column indicates a taxadjunct to the series. See notes for a description of those characteristics of this taxadjunct that are outside the range of the series)

Soil name	Family or higher taxonomic class
Crosby-----	Fine, mixed, mesic Aeric Ochraqualfs
Del Rey-----	Fine, illitic, mesic Aeric Ochraqualfs
Drummer-----	Fine-silty, mixed, mesic Typic Haplaquolls
Palms-----	Loamy, mixed, euic, mesic Terric Medisaprists
Patton-----	Fine-silty, mixed, mesic Typic Haplaquolls
Pella-----	Fine-silty, mixed, mesic Typic Haplaquolls
Sisson-----	Fine-loamy, mixed, mesic Typic Hapludalfs
Sloan-----	Fine-loamy, mixed, mesic Fluvaquentic
	Haplaquolls
Strawn-----	Fine-loamy, mixed, mesic Typic Hapludalfs
*Tuscola-----	Fine-loamy, mixed, mesic Aquic Hapludalfs
Udorthents ---	Loamy, mixed, mesic Typic Udorthents
Williamstown	Fine-loamy, mixed, mesic Aquic Hapludalfs